	Application No.	Applicant(s)
Notice of Allowability	10/776,662	ENGELLAND ET AL.
	Examiner	Art Unit
	Minh Ohau T Dham	4704
	Minh-Chau T. Pham	1724
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to other appropriate communication is surprised in the communication in the communication is surprised in the communication in the co	this application. If not included included included included in the course. THIS
1. This communication is responsive to <u>Response filed on 11</u>	<u>1/28/06</u> .	
2. X The allowed claim(s) is/are <u>1-13</u> .		
3. Acknowledgment is made of a claim for foreign priority un	nder 35 U.S.C. § 119(a)-(d) or	(f).
a) ☐ All b) ☐ Some* c) ☐ None of the:		
 Certified copies of the priority documents have 	e been received.	
2. Certified copies of the priority documents have	e been received in Application	No
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		(PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date		n the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same of		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATEI FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the LOGICAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sur	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./M	lail Date mendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's S	tatement of Reasons for Allowance
of Biological Material	9.	Ill Min
		Minh-Chau Pham Patent Examiner Art Unit: 1724

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Allowable Subject Matter

Claims 1-13 allowed.

The closest relevant art is the European reference (WO 00/74818 A1), in view of the French Patent (FR 2,034,160), and further in view of Finnerty et al (6,190,432 B1).

The European reference discloses a method of installing a filter cartridge into a housing comprising the steps of providing a filter cartridge (500) with a seal arrangement (543) including a sealing gasket (544) positioned to axially seal the filter inside the housing (page 44, line 30 through page 45, line 22), a projection arrangement including projections (see 814 in Fig. 42) extending outwardly from opposite side of the filter sheath (page 43, line 24 through page 44, line 1), providing a filter housing with first and second opposite ends and sidewall defining a top, a bottom and opposite sites and an access cover removable from the housing (see details of Fig. 1), inserting the filter cartridge into the housing by engaging the projections extending outwardly from opposite sides of the filter sheath (page 44, lines 4-10), sealing the filter cartridge into the housing by compressing the seal arrangement in thickness (page 44, line 30 through page 45, line 6), and retaining biasing engagement between the housing and the filter cartridge via a retention or lift mechanism (602) (see page 45, line 23 through page 46, line 4; page 47, lines 8-14). Claims 1-13 differ from the disclosure or the European reference in that the filter cartridge comprising a sheath surrounding the filter having projections for biasing the filter cartridge against an end of the housing with the seal arrangement, and a z-filter media within a sheath. The French reference discloses a sheath (B) positioned surrounding the filter media (15), a projection arrangement

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including projections (17) extending outwardly from opposite sides of the sheath (B), a filter cartridge (15) being positioned inside the housing with a portion of the air cleaner arrangement in engagement with the projections (17) on the sheath (B) and thereby axially driving the filter cartridge (15) and axially sealing the seal arrangement (4-7) against the housing (see Figs. 2 & 3). Finnerty et al disclose an air filter cartridge (see Figs. 10 & 11) comprising a z-filter media (455) coiled in a non-circular configuration having two semi-circular ends (511, 512) and which are joined by a pair of straight segments.

Claims 1-13 of this instant patent application differ from the disclosure of the European reference (WO 00/74818 A1), the French Patent (FR 2,034,160), and Finnerty et al (6,190,432 B1) in that the filter being a z-filter having a sheath with a projections extending outwardly from opposites sides of the sheath and the step of sealing the filter cartridge in the housing by engaging the projections extending outwardly from opposite sides of the sheath with structure inside of the housing and biasing the filter cartridge against an end of the housing with the sealing arrangement providing an axial seal between the filter cartridge and the housing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Minh-Chau Pham Patent Examiner

Art Unit: 1724 February 12, 2007 DUANE SMITH
PRIMARY EXAMINER

2-15-07